

**Community Advisory Council
November 12, 2020
Action Items/Notes**

Draft

Note: This meeting was held virtually. A link to the video recording of the Zoom meeting is available on the BNL CAC webpage.

These notes are in the following order:

1. Attendance
2. Correspondence and Handouts
3. Administrative Items
4. Environmental Updates
5. 2019 Site Environmental Report
 - Groundwater Protection
 - Natural and Cultural Resources
6. Agenda Setting
7. Community Comment

1. Attendance

Members/Alternates Present: See Attached Sheets.

Others Present: J. Bukoski, J. Carter, M. Creamer, B. Dorsch, N. Foster, P. Genzer, D. Gibbs, S. Gonzalez, J. Granzen, T. Green, S. Hartzel, R. Hodgins, B. Howe, D. Hurteau, B. Jankauskas, D. Manning, B. McCaffrey, R. McKay, G. Olson, D. Paquette, D. Pocze, Polanish, V. Racaniello, A. Rapiejko, J. Remien, R. Tribble, A. Troutman, J. Wanless, T. Welty

2. Correspondence and Handouts

Items numbered one and two were e-mailed to Members on November 5, 2020. Items numbered three through six were e-mailed to Members on November 12, 2020.

1. Draft agenda for November 12, 2020 meeting
2. Draft notes from the October 8, 2020 meeting
3. Copy of presentation: Building 650 Demolition & Decommissioning update
4. Copy of presentation: HFBR Stack Demolition & Decommissioning update
5. Copy of presentation: 2019 SER, Groundwater Protection
6. Copy of presentation: 2019 SER, Natural and Cultural Resources

3. Administrative Items

The meeting was called to order at 6:30 p.m. Reed Hodgins, facilitator, welcomed everyone to the Zoom virtual meeting. He reviewed the ground rules and draft agenda.

Doon Gibbs, Laboratory Director, welcomed everyone.

Andy Rapiejko said at the last meeting there was a question about whether the residents south of the Lab who have been connected to public water could still have a working well on their

property. Out of the 100 properties, there were two that indicated they are connected to public water and also have a well, but neither asked to have their well sampled. If they had requested a sample, we would have worked with them.

Member Sprintzen said a colleague asked him several questions about Discovery Park. He asked where the solar panels are on the renderings of the buildings, will there be solar, and are the most efficient building designs being used and if not, why not, and how about geothermal heating and cooling. Can you please ask about these forward-looking environmental features?

Hodgin asked Member Sprintzen to send those questions in to the Lab.

David Manning said we will be providing an update to the CAC about Discovery Park in the spring. He said there is only one building currently in design, which is the Science and User Support Center (SUSC) building. We will pass along your questions and respond back to you.

***ACTION ITEM**

After receiving Member Sprintzen's email listing his questions, respond back with the answers.

Hodgin introduced the new alternate member for the Long Island Pine Barrens Society, Miranda Gonzales.

Hodgin then said there are a few Member organizations that have not attended a meeting in quite some time, including Colonial Woods/Whispering Pines community and Teacher's Federal Credit Union. We have reached out to them, and if we don't get a response, we will put it in front of the CAC at the March meeting for action.

Manning said he just received an email from Teachers Federal Credit Union and they are interested in continuing membership. They were not available this evening but plan to attend future meetings.

Hodgin said that's great to hear, we will work with them. We also have five positions open on the Council that we would like to fill. We will pursue it during the 3-month break. If you know of any interested groups, please let us know. Current open positions are:

- BNL affiliations
- Government
- Advocacy & the Environment (2 openings)
- Health-based

Member Sprintzen asked for an email with a list of the open positions.

***ACTION ITEM**

Send CAC members the list of open positions for consideration

Approval of notes:

Member Perez said that he was present at the last two meetings and asked that the notes be amended to reflect that.

Member Martin noted his question from the previous month about whether previous member Izzy Doroski's questions regarding the removal of the Stack were answered. At the October meeting Matt Creamer indicated they were, but Martin said he spoke to Izzy, who said his questions were not answered to his satisfaction. Hodgin indicated that Doroski's concern would be noted in the November notes and action items (this document).

The October notes were approved as amended with none opposed and six abstentions.

4. Environmental Updates

Matt Creamer, US Army Corp of Engineers project engineer for the Stack demolition, updated the CAC on the project. He said things are going smoothly and we are on schedule to have the Stack down by the end of the calendar year.

Member Perez asked if the system that is taking down the cement also removes the rebar in the concrete.

Creamer said yes, the Mantis breaks the concrete using a hydraulic hammer. Workers on the platform will be using torches to cut the rebar and the Mantis will be pushing the chunks of concrete into the stack.

Member McCormick asked how tall the Stack is and at what height the air monitoring stations are placed.

Creamer said the Stack is about 300 feet tall. The air monitoring stations are at ground level.

McCormick asked if any consideration is given to the fact that some radionuclides could be emanating out of the stack at the 200- or 300-foot level.

Creamer said modeling and NESHAP assessments were done for the project and that was the basis for the placement of the monitoring stations. They are placed a certain distance away from the Stack, which was all taken into consideration. The project team and the Lab also did assessments. We compared the two so all was taken into account for the placement of the monitors.

McCormick asked if there is any quantified data to support that position. Can we confirm that no radionuclides will be emanating offsite?

Creamer said yes, I believe we can get that information for you. I don't know if we have something readily available, but if not, we can put something together for you.

***ACTION ITEM**

Provide information to CAC on the design of the air monitoring program to detect any airborne transport of radionuclides offsite.

Jason Remien said there has not been any radiological monitoring done at this point because the project to date has not involved abatement of the external surface of the stack and actual demolition has not started yet. There is no radioactive contamination on the outside of the stack so radiological monitoring was not part of the external abatement process. Radiological monitoring will be conducted when demolition activities involve contaminated surfaces inside the stack. In addition to the monitoring the contractor is doing, the Lab will also be monitoring further away from the stack. We also have radiological monitoring stations located on the perimeter of the Lab site that are part of our normal monitoring program. We don't anticipate seeing anything but will be checking those monitors. He said Nate Foster is the subject matter expert on site.

Nate Foster said the Laboratory has done some radiological monitoring to establish a baseline before the contractor starts demolition. Jason is correct, there is no rad contamination on the outside of the Stack. All the calculations that have been done as part of project planning indicate there will be no dose issues from any airborne emissions. Those calculations were done applying no mitigating factors, so we basically assumed that in the demolition of the Stack all of the isotopes that were in there were airborne and head into a direction. However, that is not the

case, we do apply engineering controls, which is the dust suppression system and most of the activity is fixed into the first $\frac{1}{4}$ - $\frac{3}{4}$ inch of the interior of the stack. We expect most of the activity to go out by rail (i.e. included with demolition debris) rather than become airborne and create an issue.

Member Schuhmann asked if the workers will be wearing dosimeter badges or if they could be placed around at height to see if there is any radiological exposure.

Remien said we want to protect the workers. He indicated that there will be monitoring done at height. The way the Mantis is designed, the demolished blocks will fall inside the remaining stack. If there is any contamination it will be on the inside of the stack. The biggest concern on the outside of the Stack during demolition is silica from the concrete, which is the main reason that water misting is being conducted.

Creamer said workers at height will be wearing dosimeter monitoring badges. There will also be a dust suppression water system on the Mantis as well as throughout the interior of the Stack so any dust created is suppressed as it falls. There are multiple levels of protection.

Member Jordan Sweet said as the Stack gets lower and lower and chunks of concrete fall down, she thinks there would be a plume of dust and that would be more serious as the Stack gets shorter.

Creamer said there is a water dust suppression system throughout the interior of the Stack at multiple heights to maintain dust.

John Bukoski said, there is continued dust suppression throughout the process at the top as well as at two levels in the Stack, and while any materials are being loaded out. If there is dust produced, the activity is stopped until the dust is controlled, and the material is sufficiently wetted down.

Member Martin said he has some concerns raised by former Member Izzy Doroski. These are Doroski's views, not necessarily Martin's. He said Doroski did not agree with the BNL environmental assessment and plan regarding Stack removal. He was concerned about the lack of air monitoring. He wanted Riverhead Town to hire a special radiological consulting firm to study the issue and to have independent air monitoring done for radionuclides and other contaminants, especially transuranic ones, including plutonium and americium. He was not satisfied with the Lab's response and he thought the Town of Riverhead should take independent action. Doroski indicated to Martin that the Riverhead town supervisor in office at that time agreed that this should be taken seriously. Doroski stated that she supported his recommendation that the issue should be considered by the town board, that an independent consultant should be hired to monitor the air by the border, and that there should be a public board meeting so residents could be educated on it, discuss it, and take action. However, according to Doroski, the new supervisor who assumed the post following an election, did not bring this issue before the town board, nor was there any public involvement. Doroski told Martin that he was representing the town on the CAC at the time but has since resigned as the Town of Riverhead's representative on the CAC because of the town's lack of concern over the BNL's BGRR Stack demolition and possible environmental risks. Martin indicated that Doroski added he felt that attitude was irresponsible.

Hodgin advised Member Martin that he was violating ground rules.

Member Martin said those were Izzy Doroski's comments. He said personally, he was satisfied that issues were addressed but based on subsequent comments and questions raised by Doroski, he is concerned because he actually lives closer to the Lab than Doroski does.

Hodgin asked Member Martin if he has any specific project-related questions or concerns that we can get answers for.

Member Martin said he had nothing further than those raised by Doroski. He indicated that he understands there has been plume modeling but emphasized that the concern is around monitoring.

Hodgin said we can provide a summary on the kind of air monitoring that is being done.

***ACTION ITEM**

Send the CAC a summary of type of air monitoring being done during the Stack demolition.

Member McCormick, current Town of Riverhead representative, said he would be happy to discuss this topic with Doroski and asked Member Martin to have him call town hall tomorrow and I will speak to him.

Member Martin said he would be happy to pass on the offer, but it might be more appropriate for someone from the Lab to reach out to him with that offer.

***ACTION ITEM**

Contact former Member Doroski with the offer to discuss the Stack demolition with Member McCormick

Jason Remien then updated the CAC on the building 650 demolition. The project is moving along well. The project team is focusing on selective demolition of radiologically internally contaminated piping and any remaining radiological and hazardous source terms prior to demolition. Building demolition is currently planned to commence late December, early January.

5. 2019 Site Environmental Report (SER), Bill Dorsch and Tim Green

Bill Dorsch went over Chapter 7 of the 2019 SER, Groundwater Protection.

Member Schuhmann asked why the Lab occasionally puts the extraction wells into pulse mode.

Dorsch said sometimes you get stagnation points in terms of flow and if you turn them off and on again you can get things moving.

Member Martin asked what the depths of most of the plumes are.

Dorsch said the original depth of the contamination was 120-150 feet below ground surface, but the deeper stuff that we are now treating is about 150-200 feet below ground surface. So, it is approaching the top of the Magothy Aquifer.

Member Jordan Sweet asked if anyone has done any measurements on Railroad Ave where the NSLSII was built.

Dorsch said yes, back in the 90's we investigated that area and there was some low-level VOC contamination in that area that we monitored, but we can no longer detect anything over drinking water standards in that area. There was never any radioactive contamination in that area. Doug Paquette will be presenting to the CAC, probably in the spring, on the potential for PFAS contamination in that area.

Member Jordan Sweet asked if it is known when a building is taken down whether or not there is a need for monitoring downstream.

Dorsch said yes, we do for the most part. The best thing we can do to be sure we don't miss anything is to install monitoring wells downgradient prior to doing any work.

Member Jordan Sweet asked if that is done as a matter of practice anytime a building is taken down.

Dorsch said yes, whenever we take down a building with a likelihood for some residual contamination that could create a groundwater plume.

Tim Green discussed Chapter 6 of the SER, Natural and Cultural Resources.

Member Ziems asked if the Lab is doing anything to control the wild turkey population.

Green said no, right now the DEC is trying to establish a regular hunting season for them. Once they reach the size of a chicken, they don't have any natural predators.

6. Agenda Setting

David Manning said we will be taking a break from meeting for the next three months, so the next CAC meeting will be on March 11, 2021. If the need arises, we will call a meeting in the interim. He said coming up we will have more updates on the Stack, the Building 650 D&D, emerging contaminants of concern, the environmental assessment of the Electron Ion Collider, the CERCLA five-year review, Discovery Park update, COVID-19 research, and energy renewables. Tom Daniels will also provide you with an update on site sustainability, and we will be updating CAC membership.

Member Israel said CAC Member Schwartz was awarded the International Aerosol Research Assembly's (IARA) 2020 International Aerosol Fellow Award for his outstanding contributions to aerosol science and technology.

7. Community Comment

There was no community comment.

8. Adjournment

The meeting adjourned at 9:32 PM

Next meeting: March 11, 2021

P = Present	2020	Affiliation		First Name	Last Name	Jan No mtg	Feb	Mar No mtg	Apr No mtg	May	June	July	Aug	Sep	Oct	Nov	Dec
ABCO – Civic (Garber - 04/02) (Bevington – 6/14) (Keenan-10/14)	Member	Ray	Keenan			P				P	P			P	P		
(Madigan -10/10)	Alternate	Michael	Madigan							P							
American Physical Society – Business & Labor	Member	Reinhardt	Schuhmann			P				P	P			P	P	P	
(Schuhmann 1/14, member 9/15)	Alternate	Donavan	Hall														
Brookhaven Coalition of Chambers of Commerce – Bus & Labor (added 6/15)	Member	Ron	Trotta								P			P	P	P	
(Inserra added10/20)	Alternate	Carmine	Inserra													P	
Brookhaven Retired Employees Association- BNL (Peskin - 09/09)(Franz 1/17)	Member	Mark	Israel							P	P			P	P	P	
(Franz - 12/09)(Israel 1/17)	Alternate	Eena-Mai	Franz			P											
(Shapiro-1/13)	Alternate	Steve	Shapiro														
Citizens Campaign for the Environment – Advocacy & Environment	Member	Adrienne	Esposito			P					P			P	P		
(Somma 11/16)	Alternate																
Colonial Woods Whispering Pines – Civic (Birben - 06/09) (O'Neal 01/15, removed 10/15)	Member																
(Rehbein -11/10)	Alternate	Eric	Rehbein														
Coram Civic Association (Ziems - 06/12)	Member	Paul	Ziems							P	P			P	P	P	
(Meade – 06/12, Jim M 10/12, Turk 1/16)	Alternate	Rosa	Turk			P				P	P			P		P	
East Yaphank Civic Association (Feinman 06/19)	Member	Robert	Feinman														
(Feinman - 02/09 – 11/15)(Mack 11/15)	Alternate	Catherine	Mack							P	P			P	P		
Emeritus – (Sprintzen changed from Individual10-20)	Member	David	Sprintzen													P	
Foundation for Economic Education – Ed, Sci, & Tech (5/14)(Martin – 10/14)	Member	Bruce	Martin			P				P					P	P	
(Pratka – 10/14)	Alternate	Craig	Pratka								P					P	
Friends of Brookhaven- BNL (Kaplan 07/01–11/15)(Bowerman 11/15)	Member	Biays	Bowerman			P				P	P			P	P	P	
(Schwartz - 11/02) (Ocko added 11/15)	Alternate	Steve	Schwartz			P				P	P			P	P		
	Alternate2	Ben	Ocko														
Huntington Breast Cancer Coalition – Health-Based Rep	Member	Mary Joan	Shea							P	P						
	Alternate	Scott	Carlin														
Individual	Member	Jane	Corrarino							P	P			P	P		
Individual	Member	Karen	Blumer							P	P			P			
Individual	Alternate	Michael	Madigan			P				P	P			P			
Individual (Sprintzen changed to Emeritus 10-20)	Member	David	Sprintzen			P				P	P			P	P	P	
L.I. Pine Barrens Society – Advoc & Env	Member	Richard	Amper														

P = Present	2020	Affiliation		First Name	Last Name	Jan No mtg	Feb	Mar No mtg	Apr No mtg	May	June	July	Aug	Sep	Oct	Nov	Dec
(Murdocco - 04/11, deleted 6/12) (Muller added – 8/12)(Katie Rose Leonard added – 6/13)(Muether added – 5/15) (Wolf added-1/19)(Moran added 2/20)(Muether 10/20)			Alternate	Katie	Muether		P			P	P				P		
(Gonzales added 11/20)			Alternate2	Miranda	Gonzales											P	
Lake Panamoka Civic Association (Biss - 04/02)(Staddon 10/17)			Member	Richard	Staddon												
(Grandal - 10/10)			Alternate	Bonita	Grandal												
Longwood Central School Dist. – Ed, Sci, & Tech (Castro -06/09)(Adams 9/15)			Member	Tracy	Adams												
(Gerstenlauer removed & Sterne added 5/14 removed 9/15)(Infranco1/17)			Alternate	Paul	Infranco												
Mastic Park Civic Association (Sicignano – 6/12)			Member	John	Sicignano		P										
			Alternate	Clara	McManus												
			Alternate	Joe	May												
Middle Island Civic Association (Filler 2/17)			Member	Martin	Filler		P			P	P			P	P	P	
(Nowak 01/15 – 5/15)(Malloy 9/15)			Alternate	Margaret	Malloy												
NSLS-II User Committee – BNL			Member	Jean	Jordan-Sweet		P			P	P			P	P	P	
(Ravel -02/11-9/15)(Bohon added 11/15)(Bohon removed)			Alternate														
Ridge Civic Association (Henagan removed 9/15)(Chattaway added 10/15)(Casanova added 11/19)			Member	Ken	Casanova		P			P	P			P	P	P	
Suffolk County Legislature 1st Dist. - Government (added 6/15)			Member	Al	Krupski		P			P	P			P	P		
			Alternate	John	Stype											P	
Teachers Federal Credit Union – Bus & Labor (Murdocco 3/15) (Stafford 1/18)			Member	Michelina	Cahill												
(Cahill 5/20)			Alternate														
Town of Brookhaven, Senior Citizens Office - Government			Member	James	Heil		P										
			Alternate														
Town of Riverhead - Government (Doroski - 04/11)(McCormick – 10/20)			Member	Dan	McCormick		P			P	P			P	P	P	
(Hulme - 04/11 - 4/14)(Janis Rottkamp 04/16)			Alternate	Janis	Rottkamp												
Wading River Civic Association (Rundlett 09/16)(Kneitel 02/17)(Perez 06/19)			Member	Henry	Perez		P							P	P	P	
(Bail and Guthy removed 11/2016)			Alternate	Linda	Rundlett												